

WHAT IS CLAIMED IS:

- Sub 1
1. A method of displaying a video, said method comprising:
receiving a datastream comprising information for a plurality of
presentations of said video;
displaying a first presentation of a segment from said video in normal
playback on a display;
displaying at least a portion of a second presentation of said segment from
said video on said display while displaying said first presentation; and
permitting a user to select a desired presentation for displaying on said
display.
 2. The method as described in claim 1 and further comprising:
converting a portion of said second presentation to a graphics format; and
displaying said graphics format on said display.
 3. The method as described in claim 2 wherein said graphics format
comprises a 16 bit per pixel graphic image.
 4. The method as described in claim 2 and further comprising:
displaying successive segments of said first presentation of said video on
said display; and
displaying at least a portion of one of said successive segments of said
video according to said second presentation.
 5. The method as described in claim 1 and further comprising:
displaying on said display a plurality of presentations of said video
that are different from said first presentation while displaying on said display said first
presentation of said video.
 6. The method as described in claim 1 and further comprising:
decoding an MPEG datastream so as to obtain data for said displaying of
said first presentation; and
decoding said MPEG datastream as resources permit so as to obtain data
for said displaying of said second presentation.

1 7. The method as described in claim 1 wherein said datastream
2 comprises a plurality of interleaved angles for said video.

1 8. The method as described in claim 1 and further comprising:
2 storing in memory an identifier which identifies a primary
3 presentation being displayed on said display.

ai 1 9. The method as described in claim 8 and further comprising:
2 displaying on said display a plurality of presentations of said video that are
3 different from said first presentation while displaying on said display said first
4 presentation of said video;
5 converting at least a portion of each of said plurality of presentations to a
6 graphics format;
7 displaying each of said graphics format for each of said plurality of
8 presentations on said display; and
9 updating each of said plurality of presentations of said video that are
10 different from said first presentation as resources permit so as to correspond with a
11 different segment of said video.

1 10. An apparatus to play a video, said apparatus comprising:
2 an input to receive an MPEG datastream, said datastream comprising
3 information for a plurality of different presentations of said video;
4 a decoding circuit configured to decode said MPEG datastream so as to
5 output a signal for displaying a first presentation of said video;
6 a selection circuit operable to re-configure said decoding circuit such that
7 said decoding circuit is configured to decode said MPEG datastream so as to output a
8 signal for displaying a second presentation of said video; and
9 a receiver configured to receive during use a signal from a user that
10 indicates a desired presentation to display.

1 11. A method of selecting from a plurality of presentations of a video a
2 desired presentation for viewing the video, said method comprising:
3 receiving a datastream comprising information for a plurality of
4 presentations of said video;

5 displaying on a display in normal playback mode a segment of a first
6 presentation of said video; then
7 displaying on said display in normal playback mode a segment of a second
8 presentation of said video; and
9 permitting a user to select a desired presentation of said video.

al 1 12. The method as described in claim 11 wherein said displaying on a
2 display in normal playback mode a segment of a first presentation of said video comprises
3 displaying a segment of said first presentation for a predetermined period of time.

1 13. The method as described in claim 12 and further comprising
2 displaying each presentation of said video on a different segment of said display.

1 14. The method as described in claim 11 wherein said displaying of
2 said second presentation displays a segment of said video that follows in time said
3 segment of said video displayed by said displaying of said first presentation.

1 15. The method as described in claim 11 wherein said displaying of
2 said second presentation displays a segment of said video that is contemporaneous in time
3 with said segment of said video displayed by said displaying of said first presentation.

1 16. The method as described in claim 11 wherein said displaying of
2 said second presentation displays a segment of said video that overlaps in time with said
3 segment of said video displayed by said displaying of said first presentation.

1 17. The method as described in claim 11 wherein said datastream
2 comprises video objects interleaved as blocks such that each interleaved block contains
3 data for one of said plurality of presentations.

1 18. The method as described in claim 12 and further comprising:
2 converting a portion of said first presentation to a graphics format; and
3 displaying said graphics format on said display so as to represent said first
4 presentation while displaying on said display in normal playback mode said segment of
5 said second presentation of said video.

1 19. The method as described in claim 18 and further comprising:
2 converting portions of all of said presentations to graphics format;

3 displaying all of said graphics formats on said display;
4 indicating to a user during use a particular one of said displayed
5 presentations; and
6 allowing the user to select a preferred presentation.

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1 20. The method as described in claim 19 and wherein said indicating
2 comprises:
3 cycling through each of said displayed presentations so as to indicate to the
4 user each presentation and so as to allow the user to select a presentation when said
5 presentation is indicated.

1 21. The method as described in claim 11 and further comprising:
2 playing an audio segment corresponding to said segment of said first
3 presentation of said video while displaying said first presentation of said video.

1 22. A method of permitting a user to select a point in time occurring
2 during playback of an audiovisual (A/V) program from which to initiate displaying said
3 A/V program, said method comprising:
4 receiving a datastream comprising information for displaying said A/V
5 program;
6 playing audio of a first segment of said A/V program while displaying
7 video of said first segment of said A/V program wherein said first segment corresponds to
8 a first point in time occurring during normal playback of said A/V program;
9 playing audio of a second segment of said A/V program while displaying
10 video of said second segment of said A/V program, wherein said second segment
11 corresponds to a second point in time occurring during normal playback of said A/V
12 program;
13 permitting said user to select from where in said A/V program playback
14 should be initiated.

1 23. The method as described in claim 22 and further comprising:
2 displaying at least three segments of said A/V program on said display
3 wherein each of said three segments occurs at a point in time during normal playback of
4 said A/V program that is different relative to said other segments.

1 24. The method as described in claim 22 and further comprising:

2 converting a portion of said first video segment of said A/V program to a
3 graphics format; and
4 displaying said graphics format on said display while playing audio of said
5 second segment of said A/V program while displaying video of said second segment of
6 said A/V program.

1 25. The method as described in claim 22 wherein said permitting said
2 user to select from where in said A/V program playback should be initiated comprises
3 permitting said viewer to select one of said displayed segments.

1 26. The method as described in claim 25 and further comprising:
2 initiating display of said A/V program from approximately the segment of
3 the A/V program selected by said viewer.

1 27. The method as described in claim 22 wherein said segments
2 correspond with substantially equivalent time divisions of said entire A/V program.

1 28. The method as described in claim 22 wherein said segments
2 correspond with chapters of subject matter of said A/V program.

1 29. An apparatus to allow a viewer to select a point in time occurring
2 during playback of a moving picture from which to initiate displaying of said moving
3 picture, said apparatus comprising:

4 an input to receive an MPEG datastream for said DVD program;

5 a decoding circuit configured to decode said MPEG datastream;

6 an audio circuit configured to output a segment of said moving picture
7 from said decoded MPEG datastream;

8 a video circuit configured to output said segment of said moving picture
9 from said decoded MPEG datastream;

10 a selector operable to select a plurality of points in time occurring during
11 playback of said moving picture so as to allow a plurality of segments of said motion
12 picture to be output by said audio and video circuits.